



Co-location Report

FCC ID: O3YARF
IC: 10744A-ARF
APPLICANT: DewertOkin GmbH

Application Type: Certification
Product: Okin Commander
Model No.: P1215
Brand Name: Okin
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part15 Subpart C (Section 15.247)
IC Rule(s): RSS-247 Issue 2, RSS-GEN Issue 5
Test Date: November 26 ~ November 28, 2018

Reviewed By:

(Kevin Guo)

Approved By:

(Robin Wu)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

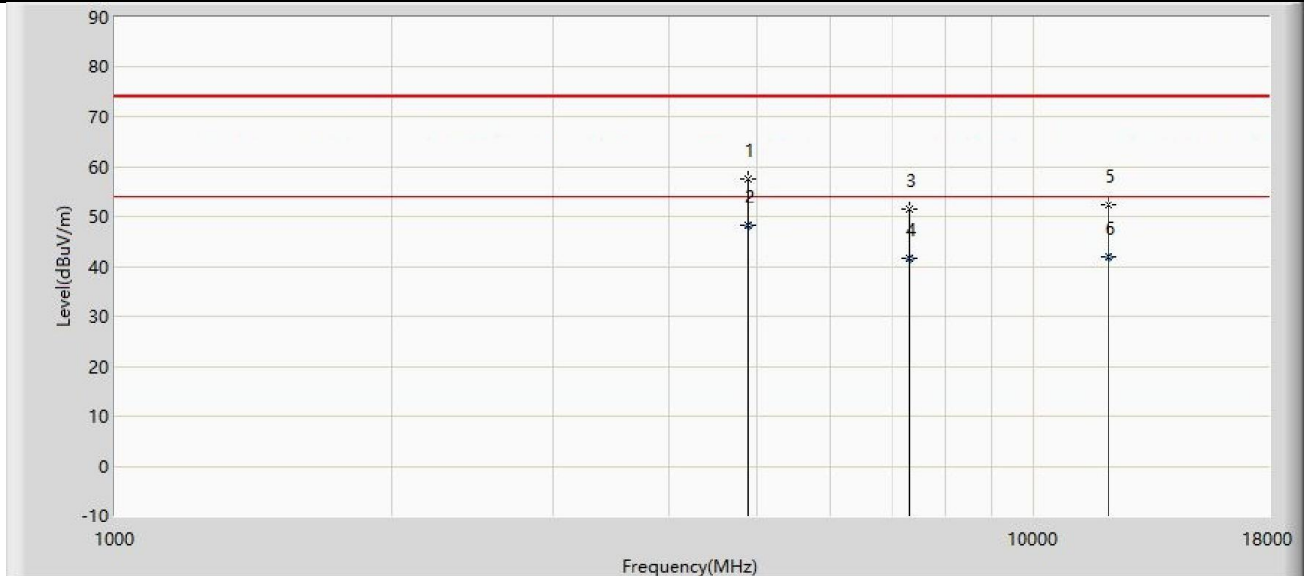
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Revision History

Report No.	Version	Description	Issue Date	Note
1806RSU033-U3	Rev. 01	Initial Report	11-30-2018	Valid

1. TEST RESULT of Radiated Emissions for Co-located

Test Mode:	OKIN 2.4G + Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Snake Ni	Polarity:	Horizontal
Product:	Okin Commander	Model No.:	P1215
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		

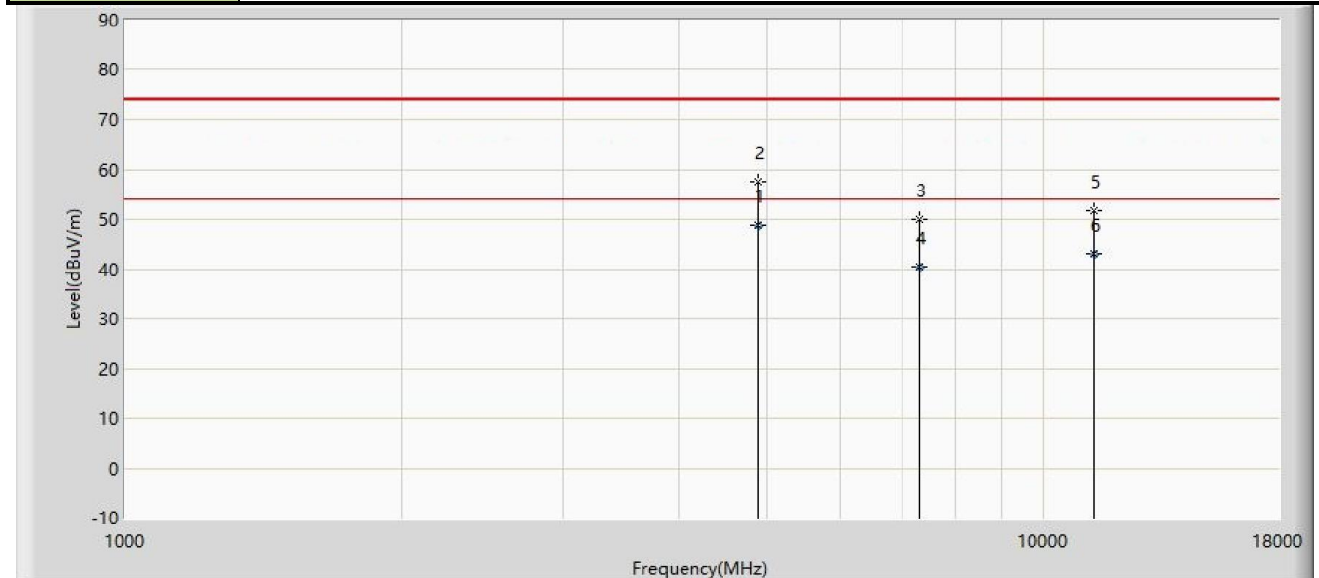


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4884.500	57.526	51.961	-16.474	74.000	5.564	PK
2			4884.510	48.275	42.710	-5.725	54.000	5.565	AV
3			7324.000	51.483	37.708	-22.517	74.000	13.775	PK
4			7324.100	41.466	27.690	-12.534	54.000	13.776	AV
5			12067.000	52.289	31.931	-21.711	74.000	20.358	PK
6		*	12067.000	41.808	21.450	-12.192	54.000	20.358	AV

Note : Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Test Mode:	OKIN 2.4G + Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Bacon Dong	Polarity:	Vertical
Antenna Type:	Okin Commander	Model No.:	P1215
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		

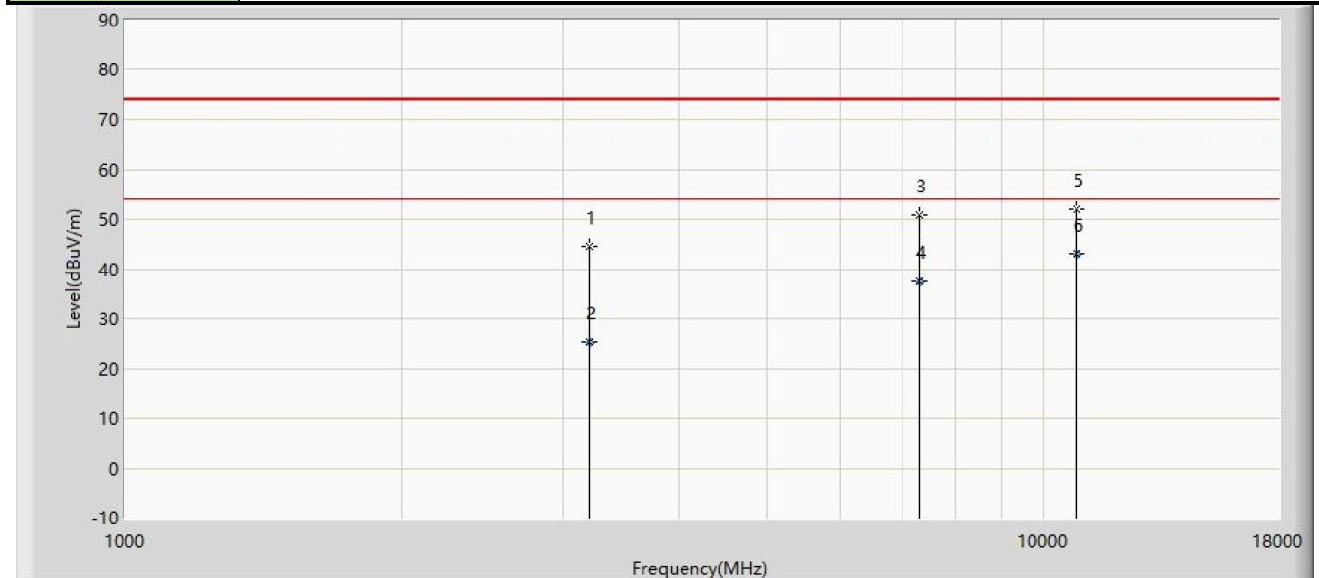


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4882.975	48.873	43.302	-5.127	54.000	5.571	AV
2			4884.500	57.535	51.970	-16.465	74.000	5.564	PK
3			7324.000	49.882	36.107	-24.118	74.000	13.775	PK
4			7324.300	40.558	26.780	-13.442	54.000	13.778	AV
5			11336.000	51.766	31.399	-22.234	74.000	20.367	PK
6		*	11336.000	43.017	22.650	-10.983	54.000	20.367	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Test Mode:	OKIN 2.4G + BT Transmit	Test Site:	AC1
Test Engineer:	Bacon Dong	Polarity:	Horizontal
Product:	Okin Commander	Model No.:	P1215
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		

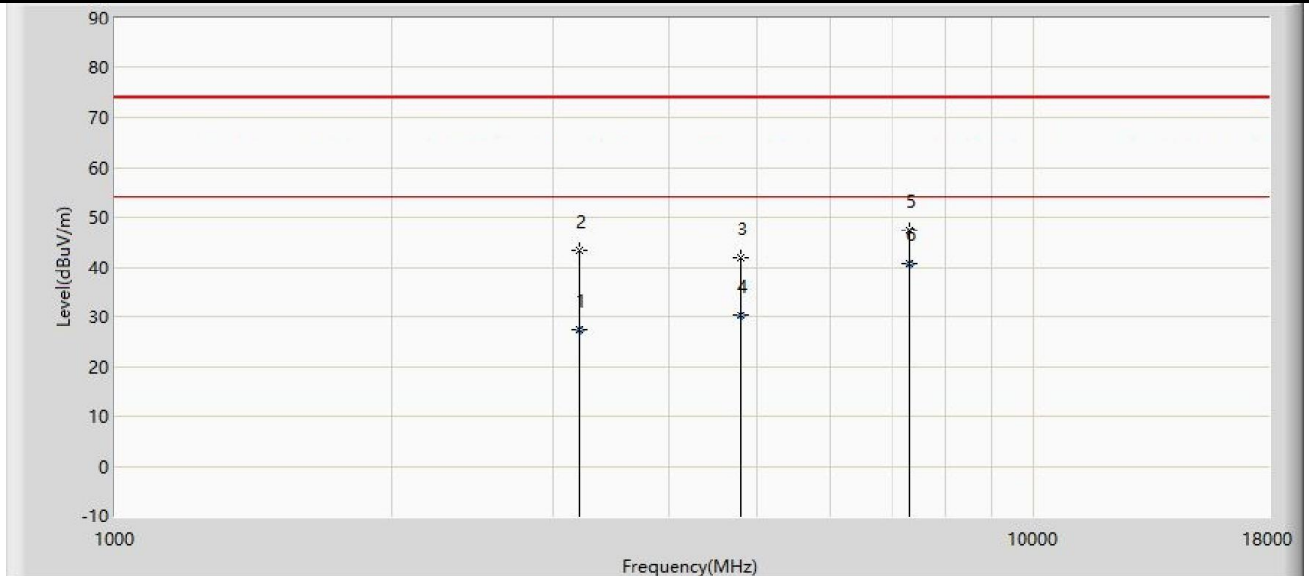


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			3201.500	44.360	43.756	-23.840	68.200	0.604	PK
2			3201.500	25.294	24.690	-28.706	54.000	0.604	AV
3			7324.000	50.993	37.218	-23.007	74.000	13.775	PK
4			7324.200	37.427	23.650	-16.573	54.000	13.776	AV
5			10860.000	52.160	32.191	-21.840	74.000	19.969	PK
6		*	10860.000	42.919	22.950	-11.081	54.000	19.969	AV

Note : Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Test Mode:	OKIN 2.4G + BT Transmit	Test Site:	AC1
Test Engineer:	Bacon Dong	Polarity:	Vertical
Antenna Type:	Okin Commander	Model No.:	P1215
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		

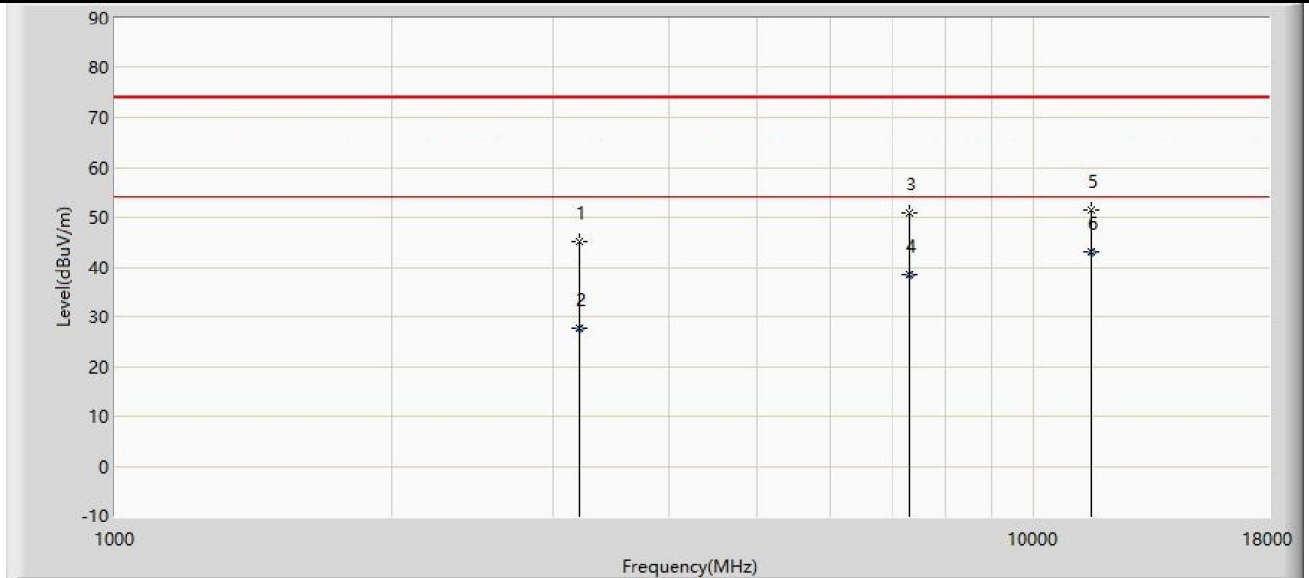


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			3201.200	27.534	26.930	-26.466	54.000	0.605	AV
2			3201.500	43.290	42.686	-24.910	68.200	0.604	PK
3			4799.500	41.783	36.268	-32.217	74.000	5.515	PK
4			4799.500	30.325	24.810	-23.675	54.000	5.515	AV
5			7324.000	47.517	33.742	-26.483	74.000	13.775	PK
6		*	7324.000	40.765	26.990	-13.235	54.000	13.775	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Test Mode:	OKIN 2.4G + BLE Transmit	Test Site:	AC1
Test Engineer:	Bacon Dong	Polarity:	Horizontal
Product:	Okin Commander	Model No.:	P1215
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		

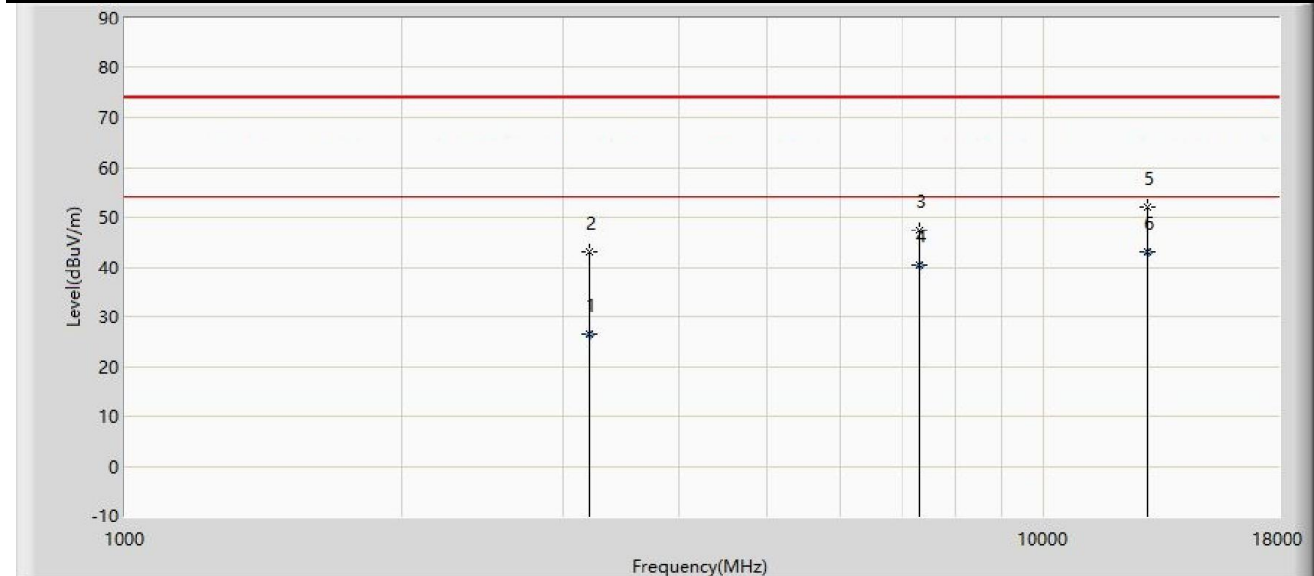


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			3201.500	45.022	44.418	-23.178	68.200	0.604	PK
2			3201.600	27.583	26.980	-26.417	54.000	0.603	AV
3			7324.000	50.811	37.036	-23.189	74.000	13.775	PK
4			7324.100	38.406	24.630	-15.594	54.000	13.776	AV
5			11540.000	51.477	30.624	-22.523	74.000	20.853	PK
6		*	11540.000	43.033	22.180	-10.967	54.000	20.853	AV

Note : Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Test Mode:	OKIN 2.4G + BLE Transmit	Test Site:	AC1
Test Engineer:	Bacon Dong	Polarity:	Vertical
Antenna Type:	Okin Commander	Model No.:	P1215
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			3201.400	26.494	25.890	-27.506	54.000	0.604	AV
2			3201.500	43.180	42.576	-25.020	68.200	0.604	PK
3			7324.000	47.400	33.625	-26.600	74.000	13.775	PK
4			7324.000	40.515	26.740	-13.485	54.000	13.775	AV
5			12959.500	52.014	30.745	-16.186	68.200	21.270	PK
6		*	12959.500	43.119	21.850	-10.881	54.000	21.270	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

The End

Appendix A - Test Setup Photograph

Refer to "1806RSU033-UT" file.

Appendix B - EUT Photograph

Refer to "1806RSU033-UE" file